



ecology and environment, inc.

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International Specialists in the Environment

CLEANUP AND EMERGENCY
RESPONSE SECTION

SEP 14 1990

CALIFORNIA DEPARTMENT OF
HEALTH SERVICES SACRAMENTO

PRELIMINARY ASSESSMENT REEVALUATION

SUBMITTED TO: Paul La Courreys, EPA Region IX Site Assessment Manager

PREPARED BY: *JS* John Semerau, Ecology and Environment, Inc. *Paul*

THROUGH: Paul Brown, Ecology and Environment, Inc. *Paul*

DATE: August 31, 1990

SITE: Diversey Wyandotte, Corporation, dated September 1, 1984.

TDD#: F9-9005-020

EPA ID#: CAD046455747

PROGRAM ACCOUNT#: FCA0241PAA

FIT REVIEW/CONCURRENCE: *James M. James* 9/5/90

cc: FIT Master File
Don Plain, California Department of Health Services

INTRODUCTION

Under Technical Directive Document number F9-9005-020, Ecology and Environment, Inc.'s Field Investigation Team (E & E FIT) has been tasked to reassess all Preliminary Assessments (PAs) in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) with "active" or "pending" status according to guidelines established to implement the Superfund Amendments and Reauthorization Act (SARA). During the course of this reassessment process, PAs were identified that contained insufficient information to allow an accurate reassessment. FIT has been subsequently directed to reevaluate and upgrade these PAs as needed to ensure that an accurate response determination is made.

The strategy for determination of further action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) is based solely on each site's potential to achieve a score high enough on the proposed revised Hazard Ranking System (rHRS) for inclusion on the National Priorities List (NPL). This strategy is intended to identify those sites posing the highest relative risk to human health or the environment. All other sites needing remedial or enforcement follow-up will be referred to the states or an appropriate federal agency.

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The following is a summary of FIT's findings with regard to this site.

SUMMARY

The Diversey Wyandotte Corporation (Diversey) site is located at 8921 Dice Road in the city of Santa Fe Springs, Los Angeles County, California (Township 2 South, Range 11 West, Section 34, San Bernardino Base Line and Meridian; Latitude: 33° 57' 40", Longitude: 118° 3' 56"). See Figure 1: Site Location Map (1). Diversey has manufactured industrial detergent cleaners at this location since 1974 (2). Currently Diversey produces acid and alkali cleaning products as well as cleaning products containing chromium. Prior to Diversey's operations at the site, BASF Wyandotte (BASF) operated at the site from 1953 until 1974. BASF manufactured industrial detergent cleaners as well.

From 1953 until 1974, when BASF became Diversey, BASF disposed of production process waste solutions containing sodium hydroxide, sodium carbonate, and phosphoric acid to fifteen on-site injection wells. Over the 21-year period, disposal of wastes occurred five days per week at a volume of 200-gallons per day (2).

Since 1974, Diversey has generated two types of hazardous substances on site. Approximately 330 gallons per year of hexavalent chromium salts or acid in solution are generated in the production of industrial detergents. These wastes are collected in a polyethylene-lined, 55-gallon, fiber storage drum, then transferred to a 2,500-gallon, stainless steel treatment tank located in a bermed and covered storage area. From this area the chromium wastes are removed to a permitted disposal facility via a registered hauler (3,4).

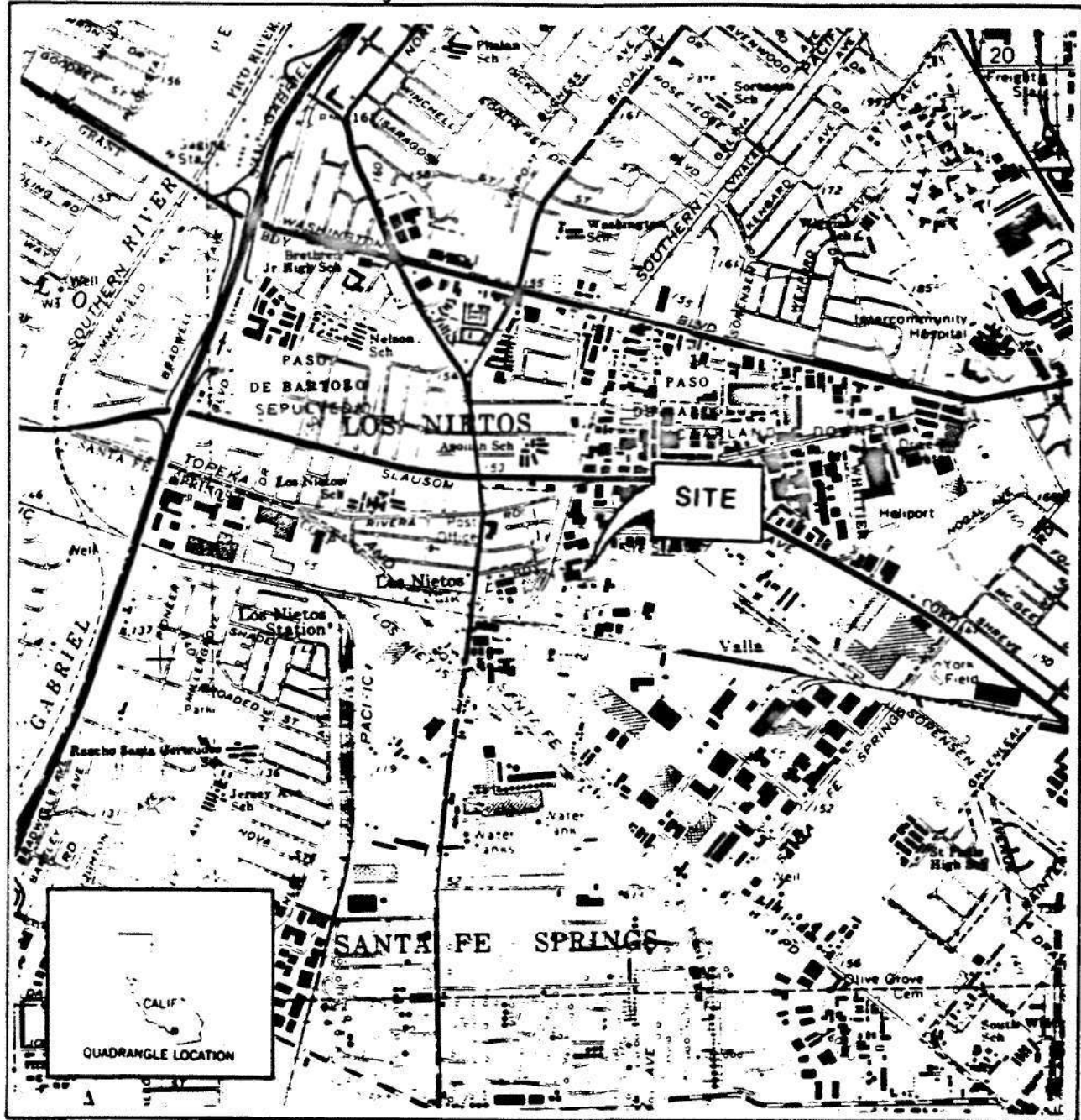
Diversey also generates approximately 100 to 10,000 pounds of liquid or solid materials per month. These materials contain sodium hydroxide, potassium hydroxide or mineral acid wastes. Although up to 99% of this material is recycled, the remaining hazardous substance is treated in a neutralization/clarification system and discharged to the municipal sanitary sewer, permitted by the Los Angeles County Sanitation District (3,4).

In April 1984, a Preliminary Assessment of Diversey conducted by the Department of Health Services, (DHS) recommended soil and groundwater sampling due to the lack of information concerning possible contamination from the on-site injection wells operated by BASF (2). At this time there is no ongoing involvement or enforcement by DHS at the site (13).

The Resource Conservation and Recovery Act (RCRA) Database as of August 14, 1990 showed that Diversey is a fully permitted treatment storage and disposal facility (TSDF) which may have closed units. The RCRA Part A TSDF notifier database dated December 12, 1989 indicated that Diversey may be a state regulated facility. The July 11, 1988 RCRA permits database shows that Diversey is permitted for treatment in tanks and storage in drums on site, and that their Part B TSDF application was received in April of 1983. The RCRA waste information database shows that Diversey handles ignitable, corrosive and toxic waste.

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SOURCE: Base from Whittier Quadrangle



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SITE LOCATION MAP
DIVERSEY WYANDOTTE CORPORATION
8921 DICE RD.
SANTA FE SPRINGS
LOS ANGELES, CA

Groundwater in the area of Diversey ranges in depth from 74 to 350 feet below ground surface (bgs). The Diversey site is underlain by clays and sandy clays. The net annual precipitation for the Santa Fe Springs area is 3.15 inches (5,6). In the area of Diversey, domestic water is supplied by the Santa Fe Springs Water Company, the Southern California Water Company and the City of Norwalk Water Company. All three water companies have water supply wells within 4 miles of Diversey. The closest well, Santa Fe Springs well #1, is located approximately 0.5 miles from the site and feeds into a blended system which serves 100,000 residents (7,11).

The potential for an observed release to groundwater appears likely since hazardous substances were deposited in injection wells on site for 21 years at a rate of 200 gallons per day (2).

The closest surface water body to Diversey is the San Gabriel River, located approximately 1 mile west of the site (1). The river is protected from surface water intrusion by the presence of a berm barrier (1). This surface water is used for flood control only (14). Due to the local geography and intervening drainage systems, there appears to be minimal potential for a release to surface water. The 2-year, 24 hour rainfall for the Santa Fe Springs area is approximately 2.5 inches (6).

FIT is unaware of any air sampling having been done at the site. Several habitats of the following designated endangered species exist within 3 miles of the site; the southwestern pond turtle (Clemmys marmorata pallida), the San Diego horned lizard (Phrynosoma coronatum blainvillei), and the bank swallow (Riparia riparia) (8).

See Table 1-1 for nearby population data (9,10).

TABLE 1-1

Population Distribution Within 4 Miles

<u>DISTANCE RING</u> <u>(miles)</u>	<u>POPULATION</u>
on-site	50
0-0.25	1,465
0.25-0.5	6,603
0.5-1.0	5,166
1.0-2.0	54,520
2.0-3.0	109,958
3.0-4.0	104,162

At this time all hazardous substances appear to be adequately contained either on site in 55-gallon drums or tanks, or unavailable to migrate to the air. Therefore the possibility of a release to the air migration pathway appears low.

There are no on-site residents. Approximately 50 people are employed by Diversey (10).

There are approximately 13,280 nearby residents within 1 mile of the site (9,10).

There are unknown on-site sources, however, due to the small area of the site and the known deposition of wastes in the injection well system, it appears unlikely that aboveground disposal occurred (2).

SUMMARY OF HRS CONSIDERATIONS

The site's most significant Hazard Ranking System factors are as follows:

- o On-site injection well disposal of wastewater over a 20-year period;
- o High likelihood of documenting an observed release to groundwater;
- o Highly toxic and persistent chromium in a mobility enhancing acidic solution is generated on-site; and
- o A well 0.5 miles from site serves more than 100,000 people.

EPA RECOMMENDATION

	<u>Initial</u>	<u>Date</u>
No Further Remedial Action Planned	_____	_____
High-Priority SSI	_____	_____
Medium-Priority SSI	_____	_____

Refer to EPA's RCRA program

Paul J. Curney

9.10.90

NFA

REFERENCES

1. U.S. Geological Survey, map of Whittier, California, 7.5-minute quadrangle (photorevised 1981).
2. Department of Health Services, Preliminary Assessment, April 1984.
3. Department of Health Services, Hazardous Waste Facilities Permit, Attachment A, October 1984, (expiration October 1989).
4. Department of Health Services, Statement of Facts, Attachment to Hazardous Waste Facilities Permit, October 1984.
5. Federal Register, Vol. 53, No. 247, Proposed Rules, 52029-52030, December 23, 1988.
6. U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Environmental Satellite Data and Information Service, National Climatic Data Center, Comparative Climatic Data for the United States Through 1985, Nashville, TN.
7. Hughs, Ron, City of Santa Fe Springs Public Works Department, and Earl La Pensee, Ecology and Environment Inc.'s Field Investigation Team (E & E FIT), telephone conversation, July 1, 1987.
8. Natural Diversity Data Base, California Department of Fish and Game, Whittier Quadrangle, expires April 1990.
9. U.S. EPA, Office of Toxic Substances, Graphical Exposure Modeling System, March 1989.
10. Galle, Rich, Diversey Wyandotte, and John Semerau, E & E FIT, telephone conversation, June 15, 1990.
11. Hughs, Ron, City of Santa Fe Springs, Public Works Department, and Karen Johnson, E & E FIT, telephone conversation, March 22, 1990.
12. Bills, Terry, Los Angeles County Department of Regional Planning, and Helena Brykarz, E & E FIT, telephone conversation, March 29, 1990.
13. Lyle, Jerry, Department of Health Services, and John Semerau, E & E FIT, telephone conversation, June 19, 1990.
14. Mitchell, John, L.A. County Department of Public Works, and Helena Brykarz, FIT, telephone conversation, March 5, 1990.

PA/SI CONTACT LOG

Facility Name: Diversey Wyandotte
Facility ID: CAD046455747

Name	Affiliation	Phone #	Date	Information
Ron Hughes	City of Santa Fe Springs	213-868-0511	7/1/87	See Contact Report.
Ron Hughes	City of Santa Fe Springs	213-868-0511	3/22/89	See Contact Report.
Gene Pierce	City of Norwalk	213-929-2677	9/29/89	See Contact Report.
Frank Costas	Southern California Water Company	213-251-3631	10/3/89	See Contact Report.
John Mitchell	L.A. County Dept. of Public Works	818-458-3537	3/5/90	See Contact Report.
Paul Ashworth	Santa Fe Springs Planning Dept.	213-868-0511	3/28/90	Last year's population of Santa Fe Springs was 16,520.
Ron Hughes	Santa Fe Springs Water Dept.	213-868-0511	3/28/90	A slight amount of TCE was found in the well at Dice Road, on October 31, 1989 (2.8 mg/l). In the January 31, 1990 sampling of the well for VOC's, no TCE was found.
Terry Bills	LA Regional Planning Dept.	213-974-6476	3/29/90	See Contact Report.
Jerry Lyle	DHS	818-567-3176	6/19/90	See Contact Report.
John Levis	LA RWOCB	213-266-7500	8/31/90	There is no RWOCB involvement at this site.

js/dv/clcr

CONTACT REPORT

AGENCY/AFFILIATION: City of Santa Fe Springs		
DEPARTMENT: Dept. of Public Works		
ADDRESS/CITY: 11714 E. Telegraph Road		
COUNTY/STATE/ZIP: Santa Fe Springs, California, 90670		
CONTACT(S)	TITLE	PHONE
1. Ron Hughes		213-868-0511
2.		
E & E PERSON MAKING CONTACT: Earl La Pensee		DATE: 7/1/87
SUBJECT: Water Wells-Santa Fe Springs		
SITE NAME: Diversey Wyandotte.*		EPA ID#: CADO46455747

Ron Hughes informed FIT of the following well information.

Well#	Location	Depth	Perforated	Aquifer
1	Dice Road and Burke Water table (static) =	900' 74'	200-288 300-900'	Silverado and Sunnyside
2	3S/11W 20R9 Static H ₂ O table =	1250' 80'	336-1218	Hollydale, Jefferson, Lynwood, Silverado, Sunnyside
304	Extension of Los Nietos Rd. to San Gabriel River Static H ₂ O table =	518' 74'	314-321 485-494	Silverado 453-457
309	Idalene near 605 Static H ₂ O table	1052' 93'	870-890 930-1000	Sunnyside (standby well)
4	35/11W/06D3 Static H ₂ O level	780' 66'	300-340 380-580 620-760	Lynwood, Silverado, and Sunnyside

The wells supply the entire city. There are approximately 5,000 service connections.

* This contact report, originally used for another site in Santa Fe Springs, is being reused for Diversey Wyandotte.

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CONTACT REPORT

AGENCY/AFFILIATION: City of Santa Fe Springs		
DEPARTMENT: Public Works		
ADDRESS/CITY:		
COUNTY/STATE/ZIP: California		
CONTACT(S)	TITLE	PHONE
1. Ron Hughes	Engineer	213-868-0511
2.		
E & E PERSON MAKING CONTACT: Karen Johnson		DATE: 3/22/89
SUBJECT: Groundwater wells		
SITE NAME: Diversey Wyandotte*		EPA ID#: CAD046455747

All wells lead into a main system. Population served by system is unknown because the area is about 90% commercial and industrial. Estimates daytime population to be around 100,000. Nighttime (residential) population is probably around 10,000.

* This contact report, originally for another site in Santa Fe Springs, is being reused for Diversey Wyandotte.

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CONTACT REPORT

AGENCY/AFFILIATION: City of Norwalk		
DEPARTMENT: Department of Public Works		
ADDRESS/CITY: Norwalk		
COUNTY/STATE/ZIP: Los Angeles County, California		
CONTACT(S)	TITLE	PHONE
1. Gene Pierce		213-929-2677
2.		
E & E PERSON MAKING CONTACT: Laurie Campbell		DATE: 9/29/89
SUBJECT: Drinking Water Well		
SITE NAME: Diversey Wyandotte*		EPA ID#: CAD046455747

Well #8, located at 13619 San Antone Boulevard and Foster Road, is perforated from 350 to 740 feet below ground surface (bgs) and is blended with Well #4, located at Leffongvell Road. The total population served is 2,200.

Metropolitan Water District (MWD) water, which is piped in from the Colorado River, can serve as an alternative drinking water source for the area.

* This contact report, originally used for another site in Santa Fe Springs, is being reused for Diversey Wyandotte.

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CONTACT REPORT

AGENCY/AFFILIATION: Southern California Water Company		
DEPARTMENT:		
ADDRESS/CITY: Norwalk		
COUNTY/STATE/ZIP: Los Angeles County, California		
CONTACT(S)	TITLE	PHONE
1. Frank Costas		213-251-3631
2.		
E & E PERSON MAKING CONTACT: Laurie Campbell		DATE: 10/3/89
SUBJECT: Drinking Water Wells		
SITE NAME: Diversey Wyandotte*		EPA ID#: CAD046455747

Well 3S/11W-18605 (located south of Dace Street, west of Markdale, and east of Highway 5) serves a population of 7,000 and is perforated from 200 to 402 feet below ground surface (bgs). Water from this well is blended with other system wells and MWD water. MWD water can serve as an alternative drinking water source for this population.

Well 3S/11W-18604 is currently out of service and will be destroyed due to contamination by dichloroethylene and trichloroethylene.

* This contact report, originally used for another site in Santa Fe Springs, is being reused for Diversey Wyandotte.

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CONTACT REPORT

AGENCY/AFFILIATION: L.A. County Department of Public Works		
DEPARTMENT: Waste Management Division		
ADDRESS/CITY: P.O. Box 1460, Alhambra		
COUNTY/STATE/ZIP: Los Angeles, California, 91802-1460		
CONTACT(S)	TITLE	PHONE
1. John Mitchell		818-458-3537
2.		
E & E PERSON MAKING CONTACT: Helena Brykarz		DATE: 3/5/90
SUBJECT: Surface water information		
SITE NAME: Diversey Wyandotte*		EPA ID#: CAD046455747

The mean flow of Coyote Creek and San Gabriel River above their confluence, from 1987-1988, in cubic feet per second (cfs) is:

	<u>Coyote Creek</u>	<u>San Gabriel River</u>
October	80	115
November	26	121
December	72	116
January	156	138
February	46	152
March	14	125
April	102	101
May	10	44
June	10	97
July	11	92
August	9	114
September	21	85

To get the flow rate below the confluence, add the figures.

Both, Coyote Creek and San Gabriel River, are concrete lined ditches for wastewater from various sources, including reclaimed wastewater from sewage effluent. There are no uses for this water.

* This contact report, originally used for another site in Orange County, is being reused for Diversey Wyandotte.

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CONTACT REPORT

AGENCY/AFFILIATION: Los Angeles County Dept. of Regional Planning		
DEPARTMENT:		
ADDRESS/CITY:		
COUNTY/STATE/ZIP: Los Angeles, California		
CONTACT(S)	TITLE	PHONE
1. Terry Bills		213-974-6476
2.		
E & E PERSON MAKING CONTACT: H. Brykarz		DATE: 3/29/90
SUBJECT: Population figures		
SITE NAME: Foremost-McKesson		EPA ID#: CAD046455747

Population figures as of January 1989:

Downey	83,680
Bellflower	57,793
Pico Rivera	58,187
Whittier	71,212
Norwalk	88,747
La Mirada	42,558

js/dw/clcr

CONTACT REPORT

AGENCY/AFFILIATION: Department of Health Services		
DEPARTMENT:		
ADDRESS/CITY: 1405 North San Fernando Road, Suit 300		
COUNTY/STATE/ZIP: Burbank, California, 91504		
CONTACT(S)	TITLE	PHONE
1. Tom Maize		818-567-3176
2. Jerry Lyle		
E & E PERSON MAKING CONTACT: John Semerau		DATE: 6-19-90
SUBJECT: DHS involvement at Diversey		
SITE NAME: Diversey Wyandotte		EPA ID#: CAD046455747

Jerry Lyle said that his files showed no current involvement/enforcement at the site. He recommended I talk to Tom Maize or Paul Baranaich. Paul will be back in 3 weeks.

Tom Maize looked at the file on Diversey. He noted that a PA had been done and would send me a copy. I received a copy of the PA on 6-28-90.

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CONTACT REPORT

AGENCY/AFFILIATION: Diversey Wyandotte		
DEPARTMENT:		
ADDRESS/CITY: 8921 Dice Road		
COUNTY/STATE/ZIP: Santa Fe, California, 90670		
CONTACT(S)	TITLE	PHONE
1. Rich Galle		213-946-6511
2.		
E & E PERSON MAKING CONTACT: John Semerau		DATE: 6/15/90
SUBJECT: Site Information		
SITE NAME: Diversey Wyandotte		EPA ID#: CAD046455747

The facility is fenced. There are 50 on-site workers. The facility manufactures industrial soap.

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